- 46. (New) The method of claim 45 wherein the protein phosphatase 2C is recombinantly produced.
- 47. (New) The method of claim 46 wherein the protein phosphatase 2C is protein phosphatase $2C\alpha$.
- 48. (New) The method claim 46 wherein the protein phosphatase 2C is protein phosphatase 2C β .
- 49. (New) The method of claim 45 wherein said introducing step further includes administering the protein phosphatase into the cancerous cell by a vector.
- 50. (New) The method of claim 49 wherein the vector comprises an expression control sequence operatively linked to the nucleic acid sequence of protein phosphatase 2C.
- 51. (New) The method of claim 50 wherein the protein phosphatase 2C is protein phosphatase $2C\alpha$.

- 52. (New) The method claim 50 wherein the protein phosphatase 2C is protein phosphatase $2C\beta$.
 - 53. (New) A method of treating cancer including the steps of
- (a) determining the type of cancer and cells expressing the cancer; and
- (b) introducing a therapeutic amount of protein phosphatase 2C into the cancerous cell.
- 54. (New) The method of claim 53 wherein the protein phosphatase 2C is recombinantly produced.
- 55. (New) The method of claim 53 wherein the protein phosphatase 2C is protein phosphatase $2C\alpha$.
- 56. (New) The method of claim 53 wherein the protein phosphatase 2C is protein phosphatase 2Cβ.
- 57. (New) The method of treating a cancerous cell which comprises introducing a therapeutic amount of protein phosphatase 2C into the cancerous cell.

- 58. (New) The method of claim 57 wherein the protein phosphatase 2C is recombinantly produced.
- 59. (New) The method of claim 58 wherein the protein phosphatase 2C is protein phosphatase $2C\alpha$.
- 60. (New) The method of claim 59 wherein the protein phosphatase2C is protein phosphatase 2Cβ.
 - 61. (New) Protein phosphatase 2C for use in the treatment of cancer.
- 62. (New) The protein phosphatase 2C of claim 61 wherein the protein phosphatase 2C is recombinantly produced.
- 63. (New) The protein phosphatase 2C of claim 62 wherein the protein phosphatase 2C is protein phosphatase $2C\alpha$.
- 64. (New) The protein phosphatase 2C of claim 62 wherein the protein phosphatase 2C is protein phosphatase 2Cβ.

65. (New) A method of treating cancer including the steps of

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(a) determining the type of cancer and cells expressing the cancer;

- (b) preparing a vector which will specifically target the cancer cells including regulatory elements to control the expressibility of protein phosphatase 2C, and
 - (c) administering the vector to the patient
- 66. (New) A method of claim 65 wherein the protein phosphatase 2C is protein phosphatase $2C\alpha$.
- 67. (New) A method of claim 65 wherein the protein phosphatase 2C is protein phosphatase 2Cβ.

<u>REMARKS</u>

Restriction to one of the follow groups was required under 35 U.S.C. §121:

Group 1, claim(s) 1-4, 8, 13-15, drawn to a method of detecting cancerous cells in a patient by detecting alterations of PP2C alpha with methods related to detecting nucleic acids.

Group 2, claim(s) 1, 25-7, 9, 10, 23, 24, drawn to a method of detecting cancerous cells in patients by detecting alteration of PP2C alpha with methods related to detecting polypeptides.